AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:



1. (Previously Presented) A rolling bearing for a hard disk drive comprising:

an innerring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a sole lubricant consisting of lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space.

2. (*Previously Presented*) The rolling bearing for a hard disk drive according to claim 1, in which the amount of said lubricating oil is not more than 30% by volume of the to-be-sealed bearing space.

3. (Previously Presented) The rolling bearing for a hard disk drive according to claim 1, in which the amount of said lubricating oil is in a range of 4-25% by volume of the to-be-sealed bearing space.

- 4. (Previously Presented) The rolling bearing for a hard disk drive according to claim 1, in which said lubricating oil is preliminarily contained in said cage.
- 5. (*Previously Presented*) The rolling bearing for a hard disk drive according to claim 4, in which an amount of said lubricating oil preliminary contained in said cage is in a range of 0.1-80% by weight of said cage.

6. (*Previously Presented*) The rolling beating for a hard disk drive according to claim 5, in which the amount of said lubricating oil preliminary contained in said cage is in a range of 10-70% by weight of said cage.

7. (Cancelled)

8. (Currently Amended) The rolling bearing for a hard disk drive according to claim 1, wherein a predetermined amount of said lubricating oil is injected into the to-be-sealed bearing space of the rolling bearing while said lubricant oil is prevented from adhering to an external portion of the rolling bearing.

9. (Previously Rresented) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring

and said outer ring and disposed opposite to each other; and

a sole lubricant comprising a lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space, and wherein the kinematic viscosity of the sole lubricant is not more than 400mm²/s.

10. (Previously Presented) A hard disk drive comprising:

an actuator; and

a rolling bearing for said actuator, comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer

ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a sole lubricant consisting of lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space.

- 11. (Previously Presented) The hard disk drive according to claim 10, in which the amount of said lubricating oil is not more than 30% by volume of the bearing space.
- 12. (Previously Presented) The hard disk drive according to claim 10, in which the amount of said lubricating oil is in a range of 4-25% by volume of the bearing space.

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13. (Previously Presented) The Mard disk drive according to claim 10, in which said lubricating oil is preliminarily contained in said cage.

14. (*Previously Presented*) The hard disk drive according to claim 13, in which an amount of said lubricating oil preliminary contained in said cage is in a range of 0.1-80% by weight of said cage.

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15. (Previously Presented) The hard disk drive according to claim 14, in which the amount of said lubricating oil preliminary contained in said cage is in a range of 10-70% by weight of said cage.

16. (Previously Presented) The hard disk drive according to claim 15, in which the amount of said lubricating oil preliminary contained in said cage is not more than 40% by weight of said cage.

17. (Currently Amended) The hard disk drive according to claim 10, wherein a predetermined amount of said lubricating oil is injected into the to-be-sealed bearing space of the rolling bearing while said lubricating oil is prevented from adhering to an external portion of the rolling bearing.

18. (Previously Presented) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a lubricating oil contained in a sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the bearing space.

19. (*Previously Presented*) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a cage supporting said plural number of folling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a lubricating oil contained in a sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to

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50% by volume of the bearing space, and wherein the kinematic viscosity of the lubricating oil is not more than 400mm²/s.

20. (Previously Presented) A hard disk drive comprising:

an actuator; and

a rolling bearing for said actuator, comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer

ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a lubricating oil confined to a sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the bearing space.

21. (Previously Presented) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a lubricating oil injected into a bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the bearing space, wherein said lubricating oil is preliminarily contained in said cage.

22. (Previously Presented) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a resin cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a sole lubricant consisting of lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space.

23. (Previously Presented) A rolling bearing for a hard disk drive comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer ring;

a resin cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring

and said outer ring and disposed opposite to each other; and

a sole lubricant comprising a lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space, and wherein the lubricating oil is comprised of base oils and ester oils, wherein the ester oils are at least 20% by weight of the base oils.

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24. (Previously Presented) A hard disk drive comprising:

an actuator; and

a rolling bearing for said actuator, comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer

ring;

a resin cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a sole lubricant consisting of lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space.

25. (Previously Presented) A hard disk drive comprising:

an actuator; and

a rolling bearing for said actuator, comprising:

an inner ring;

an outer ring;

a plural number of rolling elements located between said inner ring and said outer

ring;

a resin cage supporting said plural number of rolling elements;

a pair of sealing members fixed to both ends in an axial direction of one of said inner ring and said outer ring and disposed opposite to each other; and

a sole lubricant comprising a lubricating oil directly injected into a to-be-sealed bearing space defined between said sealing members at the both ends in the axial direction, wherein the amount of the lubricating oil is in a range of 1 to 50% by volume of the to-be-sealed bearing space, and wherein the lubricating oil is comprised of base oils and ester oils, wherein the ester oils are at least 20% by weight of the base oils.

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